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 FILE LAST UPDATED: 11 Jun 2006 (20060611/ED)

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```
=> s (raman) (8a) (lithium) (8a) enhanc?
  147948 RAMAN
    15 RAMANS
  147948 RAMAN
    (RAMAN OR RAMANS)
  307196 LITHIUM
    360 LITHIUMS
  307322 LITHIUM
    (LITHIUM OR LITHIUMS)
  901384 ENHANC?
L2      29 (RAMAN) (8A) (LITHIUM) (8A) ENHANC?
```

=> d ti 1-29

```
L2 ANSWER 1 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Experimental studies of enhanced Raman scattering from a hexagonally poled
LiTaO3 crystal

L2 ANSWER 2 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Study on surface enhanced Raman spectroscopy of DMSO and imidazole at
silver electrode in acetonitrile solution

L2 ANSWER 3 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Specific chemical effects on surface-enhanced Raman spectroscopy for
ultra-sensitive detection of biological molecules

L2 ANSWER 4 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Methods and systems for detecting analytes by chemical enhancement
in surface enhanced Raman scattering using
lithium salts

L2 ANSWER 5 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Chemical enhancement in surface enhanced Raman
scattering using lithium salts

L2 ANSWER 6 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Biomolecule analysis by rolling circle amplification and SERS detection
```

and system for such analysis

L2 ANSWER 7 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI SERS investigation of interfacial water at a silver electrode in acetonitrile solutions

L2 ANSWER 8 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Study on solid electrolyte interface film and the relative properties of anode materials for lithium ion batteries

L2 ANSWER 9 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Competitive adsorption studies of pyridine and acetonitrile on platinum electrodes in non-aqueous system by surface-enhanced Raman spectroscopy

L2 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-enhanced Raman scattering of pyridine on platinum and nickel electrodes in nonaqueous solutions

L2 ANSWER 11 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-enhanced Raman spectroscopy studies of platinum surfaces in acetonitrile solutions

L2 ANSWER 12 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-enhanced Raman spectroscopy studies of phenylpyridines interacting with a copper electrode surface

L2 ANSWER 13 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Further identification to the SEI film on Ag electrode in lithium batteries by surface enhanced Raman scattering (SERS)

L2 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI The alkali metal cation effect on the surface-enhanced Raman spectra of phosphate anions adsorbed at silver electrodes

L2 ANSWER 15 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-enhanced Raman spectroscopy and electrochemistry at the copper|4-phenylpyridine interface

L2 ANSWER 16 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Raman spectral studies on solid state interphase in Li batteries

L2 ANSWER 17 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Secondary nonaqueous electrolyte batteries, manufacture of anode materials, and apparatus for evaluating and manufacture graphite

L2 ANSWER 18 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-Enhanced Raman Scattering Study on Passivating Films of Ag Electrodes in Lithium Batteries

L2 ANSWER 19 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-enhanced resonance Raman spectroscopy of Ru and Os polyvinylpyridine adsorbed on silver electrodes

L2 ANSWER 20 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Interfacial solvent structure in butan-1-ol, butan-2-ol and 2-methylpropan-1-ol at Au and Ag electrodes from surface-enhanced Raman scattering and capacitance measurements

L2 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Characterization and surface-enhanced Raman spectroscopy of alkali metal sols

L2 ANSWER 22 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Temporal evolution of Raman intensities on surface-enhanced Raman scattering active copper and gold electrodes at negative potentials

L2 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface-Enhanced Raman Scattering from Silver Electrode Surfaces in Contact with Solutions of LiAsF₆ + Tetramethylammonium Bromide/Methyl Acetate

L2 ANSWER 24 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI SERS and impedance studies of pyrrole adsorption on a polycrystalline silver electrode

L2 ANSWER 25 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Non-aqueous surface-enhanced Raman scattering spectra of benzene

L2 ANSWER 26 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Investigations of electrode surfaces in acetonitrile solutions using surface-enhanced Raman spectroscopy

L2 ANSWER 27 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI A detailed analysis of the Raman enhancement mechanisms associated with the interaction of a Raman scatterer with a resonant metal cluster: results for lithium-hydrogen

L2 ANSWER 28 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Orientation dependence of surface enhanced Raman intensities: results from ab initio calculations

L2 ANSWER 29 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
TI Time-dependent Hartree-Fock calculations of surface-enhanced Raman intensities. Molecular hydrogen adsorbed on a model lithium cluster

=> d kwic 10, 14, 21, 23

L2 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
IT 7791-03-9, Lithium perchlorate
RL: NUU (Other use, unclassified); PRP (Properties); USES (Uses)
(surface-enhanced Raman scattering of pyridine adsorbed on roughened platinum and nickel electrodes in nonaq. solns. containing)

L2 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
IT 10377-48-7, Lithium sulfate
RL: NUU (Other use, unclassified); PRP (Properties); USES (Uses)
(surface-enhanced Raman spectrum of adsorbed phosphate on silver electrodes in solution containing Li₂SO₄ and Na₂HPO₄)

L2 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
IT 7439-93-2, Lithium, properties 7440-09-7, Potassium, properties 7440-17-7, Rubidium, properties 7440-23-5, Sodium, properties 7440-46-2, Cesium, properties
RL: PRP (Properties)
(characterization and surface-enhanced Raman spectroscopy of alkali metal sols)

L2 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
IT Raman spectra
(surface-enhanced, of solvated lithium and tetramethylammonium ions on silver electrode)

=> d bib 10, 14, 21, 234
29 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE
The answer numbers requested are not in the answer set.
ENTER ANSWER NUMBER OR RANGE (1):23

L2 ANSWER 23 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:466503 CAPLUS
DN 121:66503
TI Surface-Enhanced Raman Scattering from Silver Electrode Surfaces in Contact with Solutions of LiAsF₆ + Tetramethylammonium Bromide/Methyl Acetate
AU Deng, Zhongyi; Irish, Donald E.
CS Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, ON, N2L 3G1, Can.
SO Langmuir (1994), 10(2), 586-91
CODEN: LANGD5; ISSN: 0743-7463
DT Journal
LA English

=> d bib 10, 14, 21

L2 ANSWER 10 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:857788 CAPLUS
DN 138:177217
TI Surface-enhanced Raman scattering of pyridine on platinum and nickel electrodes in nonaqueous solutions
AU Cao, Peigen; Gu, Renao; Ren, Bin; Tian, Zhongqun
CS Department of Chemistry, Suzhou University, Suzhou, 215006, Peop. Rep. China
SO Chemical Physics Letters (2002), 366(3,4), 440-446
CODEN: CHPLBC; ISSN: 0009-2614
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:556129 CAPLUS
DN 136:11790
TI The alkali metal cation effect on the surface-enhanced Raman spectra of phosphate anions adsorbed at silver electrodes
AU Niaura, G.; Jakubenas, R.
CS Institute of Chemistry, Vilnius, LT-2600, Lithuania
SO Journal of Electroanalytical Chemistry (2001), 510(1-2), 50-58
CODEN: JECHE; ISSN: 0368-1874
PB Elsevier Science S.A.
DT Journal
LA English
RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 21 OF 29 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:72442 CAPLUS
DN 124:130171
TI Characterization and surface-enhanced Raman spectroscopy of alkali metal sols
AU Bozlee, B.; Clark, S.; Slaughter, S.; McWatters, M.; Choi, Y.
CS Dep. Chem., Whitman College, Walla Walla, WA, 99362, USA
SO Journal of Raman Spectroscopy (1996), 27(1), 75-82
CODEN: JRSPAF; ISSN: 0377-0486
PB Wiley
DT Journal
LA English

=> s (raman) (8a) (LiCl) (8a) enhanc?
147948 RAMAN

15 RAMANS
147948 RAMAN
(RAMAN OR RAMANS)
29642 LICL
901384 ENHANC?
L3 2 (RAMAN) (8A) (LICL) (8A) ENHANC?

=> d ti 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Temporal evolution of Raman intensities on surface-enhanced Raman scattering active copper and gold electrodes at negative potentials

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
TI Absorption spectra and surface-enhanced Raman spectra of silver organosols

=> d kwic 2

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AB The effects of 2-aminobenzimidazole (BIMNH₂), NaOEt, or LiCl on the absorption spectra and surface enhanced Raman scattering (SERS) spectra were studied for Ag organosols. The exptl. results indicate that a small amount of the adsorbed mols.. . .

=> d bib 2

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1992:498338 CAPLUS
DN 117:98338
TI Absorption spectra and surface-enhanced Raman spectra of silver organosols
AU Gu, Renao; he, Zhangfei
CS Dep. Chem., Suzhou Univ., Suzhou, 215006, Peop. Rep. China
SO Gaodeng Xuexiao Huaxue Xuebao (1992), 13(6), 791-4
CODEN: KTHPDM; ISSN: 0251-0790
DT Journal
LA Chinese

=> d kwic 1

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
IT 7447-40-7, Potassium chloride (KCl), properties 7447-41-8, Lithium chloride (LiCl), properties 7758-89-6, Copper chloride (CuCl)
RL: PRP (Properties)
(roughening solution; temporal evolution of Raman intensities on surface-enhanced Raman scattering of pyridine on active copper and gold electrodes at neg. potentials)

=> s (raman) (8a) (LiCl or MgCl or KBr or NaF or LiI or CaCl) (8a) enhanc?
147948 RAMAN
15 RAMANS
147948 RAMAN
(RAMAN OR RAMANS)
29642 LICL
1042 MGCL
27376 KBR
2 KBRS
27377 KBR
(KBR OR KBRS)
32550 NAF
17 NAFS
32563 NAF

(NAF OR NAFS)
5474 LII
3 LIIS
5476 LII
(LII OR LIIS)
747 CACL
3 CACLS
750 CACL
(CACL OR CACLS)
901384 ENHANC?
L4 7 (RAMAN) (8A) (LICL OR MGCL OR KBR OR NAF OR LII OR CACL) (8A)
ENHANC?

=> d ti 1-7

L4 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI SERS study of the electrochemical reduction of pyrazine on a silver electrode

L4 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI The adsorption and orientation of pyrazine on silver electrodes: a surface-enhanced Raman scattering study

L4 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Temporal evolution of Raman intensities on surface-enhanced Raman scattering active copper and gold electrodes at negative potentials

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preresonance Raman effect on the OD stretching Raman spectra of methanolic lithium halide (LiX) solutions (X = Cl, Br and I)

L4 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Absorption spectra and surface-enhanced Raman spectra of silver organosols

L4 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface enhanced Raman scattering and local photoemission currents on the freshly prepared surface of a silver electrode

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
TI SERS from silver colloids in alkali halide crystals

=> d kwic 4, 7

L4 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AB . . . between halide ions and their solvated methanol mols. The small dissociation of dissolved LiI mols. is the reason why no enhancement of the intensity is observed in the Raman OD stretching spectrum for a glassy methanolic LiI solution

L4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2006 ACS on STN
AB Surface-enhanced Raman scattering (SERS) was investigated for NaCl, KCl, KBr, and KI crystals doped with Ag. By stepwise annealing the controlled formation and growth of Ag colloids out of Ag-. . .

=> s (raman) (8a) (magnesium or calcium or potassium or alkali or alkyl or halide) (8a) enhanc?
147948 RAMAN
15 RAMANS
147948 RAMAN
(RAMAN OR RAMANS)
454833 MAGNESIUM
89 MAGNESIUMS

454867 MAGNESIUM
(MAGNESIUM OR MAGNESIUMS)
766912 CALCIUM
34 CALCIUMS
766915 CALCIUM
(CALCIUM OR CALCIUMS)
591551 POTASSIUM
16 POTASSIUMS
591553 POTASSIUM
(POTASSIUM OR POTASSIUMS)
399413 ALKALI
4473 ALKALIS
31867 ALKALIES
419842 ALKALI
(ALKALI OR ALKALIS OR ALKALIES)
568773 ALKYL
6281 ALKYLS
571602 ALKYL
(ALKYL OR ALKYLS)
151022 HALIDE
126428 HALIDES
219672 HALIDE
(HALIDE OR HALIDES)
901384 ENHANC?
L5 178 (RAMAN) (8A) (MAGNESIUM OR CALCIUM OR POTASSIUM OR ALKALI OR
ALKYL OR HALIDE) (8A) ENHANC?

=> s (raman) (8a) (magnesium or calcium or potassium or alkali) (8a) enhanc?
147948 RAMAN
15 RAMANS
147948 RAMAN
(RAMAN OR RAMANS)
454833 MAGNESIUM
89 MAGNESIUMS
454867 MAGNESIUM
(MAGNESIUM OR MAGNESIUMS)
766912 CALCIUM
34 CALCIUMS
766915 CALCIUM
(CALCIUM OR CALCIUMS)
591551 POTASSIUM
16 POTASSIUMS
591553 POTASSIUM
(POTASSIUM OR POTASSIUMS)
399413 ALKALI
4473 ALKALIS
31867 ALKALIES
419842 ALKALI
(ALKALI OR ALKALIS OR ALKALIES)
901384 ENHANC?
L6 125 (RAMAN) (8A) (MAGNESIUM OR CALCIUM OR POTASSIUM OR ALKALI) (8A)
ENHANC?

=> s (raman) (5a) (magnesium or calcium or potassium or alkali) (5a) enhanc?
147948 RAMAN
15 RAMANS
147948 RAMAN
(RAMAN OR RAMANS)
454833 MAGNESIUM
89 MAGNESIUMS
454867 MAGNESIUM
(MAGNESIUM OR MAGNESIUMS)
766912 CALCIUM
34 CALCIUMS
766915 CALCIUM

(CALCIUM OR CALCIUMS)
591551 POTASSIUM
16 POTASSIUMS
591553 POTASSIUM
(POTASSIUM OR POTASSIUMS)
399413 ALKALI
4473 ALKALIS
31867 ALKALIES
419842 ALKALI
(ALKALI OR ALKALIS OR ALKALIES)
901384 ENHANC?
L7 89 (RAMAN) (5A) (MAGNESIUM OR CALCIUM OR POTASSIUM OR ALKALI) (5A)
ENHANC?

=> s (raman) (5a) ((alkali or alkyl) (2a) halide) (5a) enhanc?
147948 RAMAN
15 RAMANS
147948 RAMAN
(RAMAN OR RAMANS)
399413 ALKALI
4473 ALKALIS
31867 ALKALIES
419842 ALKALI
(ALKALI OR ALKALIS OR ALKALIES)
568773 ALKYL
6281 ALKYLS
571602 ALKYL
(ALKYL OR ALKYLS)
151022 HALIDE
126428 HALIDES
219672 HALIDE
(HALIDE OR HALIDES)
901384 ENHANC?
L8 4 (RAMAN) (5A) ((ALKALI OR ALKYL) (2A) HALIDE) (5A) ENHANC?

=> d ti 1-4

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Investigations of silver electrode surfaces in propylene carbonate/
alkali halide electrolytes by surface-enhanced
Raman scattering

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface enhanced Raman scattering (SERS) on silver electrodes; effect of
alkali ions and halide ions on the structure of adsorbed water

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI SERS from silver colloids in alkali halide crystals

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface enhanced Raman scattering from silver electrodes: formation and
photolysis of chemisorbed pyridine species

=> d bib, kwic 1,2

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1986:597668 CAPLUS
DN 105:197668
TI Investigations of silver electrode surfaces in propylene carbonate/
alkali halide electrolytes by surface-enhanced
Raman scattering
AU Hill, I. R.; Irish, D. E.; Atkinson, G. F.
CS Dep. Chem., Univ. Waterloo, Waterloo, ON, N2L 3G1, Can.
SO Langmuir (1986), 2(6), 752-7

CODEN: LANGD5; ISSN: 0743-7463.

DT Journal
 LA English
 TI Investigations of silver electrode surfaces in propylene carbonate/
 alkali halide electrolytes by surface-enhanced
 Raman scattering

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1985:175322 CAPLUS
 DN 102:175322
 TI Surface enhanced Raman scattering (SERS) on silver electrodes; effect of
 alkali ions and halide ions on the structure of adsorbed water
 AU Zimmer, Dieter; Klostermann, Klaus
 CS Sekt. Chem., Tech. Univ. Dresden, Dresden, Ger. Dem. Rep.
 SO Zeitschrift fuer Chemie (1984), 24(12), 450-1
 CODEN: ZECEAL; ISSN: 0044-2402
 DT Journal
 LA German
 IT Electric double layer
 (of water on silver electrodes, effect of alkali metal
 halides structure of, surface-enhanced Raman
 scattering study of)
 IT Adsorbed substances
 (water on silver electrodes, surface-enhanced Raman
 scattering of, effect of alkali halides of)

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 NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered
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 NEWS 6 MAY 11 KOREPAT updates resume
 NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced
 NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAplus and

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NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAplus
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
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and display fields

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| NEWS X25 | X.25 communication option no longer available after June 2006 |

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SESSION |
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APOLLIT, AQUALINE, AQUASCI, AQUIRE, BABS, BIBLIODATA, BIOENG, BIOSIS,
BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAOLD, CAPLUS, CASREACT, CBNB,
CEABA-VTB, CEERAB, CHEMINEFORMRX, CHEMSAFE, ...'

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Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

=> s (glycidoxypropyltrimethoxysilane or GOP) (AND) (nanoparticle)
MISSING OPERATOR GOP) (AND

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (glycidoxypropyltrimethoxysilane or GOP) (AND) nanoparticle
MISSING OPERATOR GOP) (AND

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> s (glycidoxypropyltrimethoxysilane or GOP) AND nanoparticle

1 FILE AEROSPACE
2 FILE ALUMINIUM
2 FILE BIOTECHABS
2 FILE BIOTECHDS
1 FILE BIOTECHNO

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51   FILE CAPLUS
1    FILE CEABA-VTB
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1    FILE CORROSION
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1    FILE EMA
1    FILE EMBASE
1    FILE ENCOMPPAT
13   FILE EPFULL
3    FILE GBFULL
10   FILE IFIPAT
73 FILES SEARCHED...
1    FILE INPADOC
8    FILE INSPEC
3    FILE MEDLINE
2    FILE METADEX
9    FILE PASCAL
76   FILE PCTFULL
102 FILES SEARCHED...
5    FILE RAPRA
15   FILE SCISEARCH
1    FILE SOLIDSTATE
4    FILE TEMA
6    FILE TOXCENTER
151  FILE USPATFULL
29   FILE USPAT2
6    FILE WPIDS
1    FILE WPIFV
132 FILES SEARCHED...
6    FILE WPINDEX
7    FILE WSCA

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34 FILES HAVE ONE OR MORE ANSWERS, 135 FILES SEARCHED IN STNINDEX

L1 QUE (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) AND NANOPARTICLE

| | | |
|-------------------------------|------------|---------|
| => file medline caplus embase | SINCE FILE | TOTAL |
| COST IN U.S. DOLLARS | ENTRY | SESSION |
| FULL ESTIMATED COST | 1.83 | 2.04 |

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=> s (glycidoxypyropyltrimethoxysilane or GOP) AND nanoparticle

L2 55 (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) AND NANOPARTICLE

=> dup remove l2
 PROCESSING COMPLETED FOR L2
 L3 54 DUP REMOVE L2 (1 DUPLICATE REMOVED)

=> s (glycidoxypyropyltrimethoxysilane or GOP) (p) nanoparticle
 L4 32 (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) (P) NANOPARTICLE

=> dup remove l4
 PROCESSING COMPLETED FOR L4

L5 31 DUP REMOVE L4 (1 DUPLICATE REMOVED)

=> d ti 1-31

L5 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Partial discharge-resistant, electrically insulating resin compositions, materials therefrom, and their structures for high-voltage equipment

L5 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3

L5 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Superparamagnetic silica nanoparticles with immobilized metal affinity ligands for protein adsorption

L5 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Development of Nanoparticle Libraries for Biosensing

L5 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface treating of nanoparticles to control interfacial properties and method of manufacture.

L5 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Nanoparticles surface-treated with star-graft copolymers to control interfacial properties

L5 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Bio-film-inhibiting protective layer containing silica nanoparticles

L5 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Multifunctional finishing agent containing modified oxide nanoparticle with good UV resistance and antibacterial property, preparation and application thereof

L5 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Effects of heat treatment temperature on up-conversion luminescence properties of titania/ γ -glycidoxypolytrimethoxysilane composite thin films dispersed with neodymium oxalate nanoparticles

L5 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Synthesis of poly(.vepsiln.-caprolactone)-silica nanocomposites: from hairy colloids to core-shell nanoparticles

L5 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Hairy PEO-silica nanoparticles through surface-initiated polymerization of ethylene oxide

L5 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. Corrosion protection performance

L5 ANSWER 13 OF 31 MEDLINE on STN DUPLICATE 1
TI Optimization of gold nanoparticle-based DNA detection for microarrays.

L5 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Coating composition having a non-newtonian behavior.

L5 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method of preparing surface modifiers for nanoparticles, surface-modified inorganic oxide nanoparticles, and applications thereof

L5 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of corona-tolerant wire paints containing modified

nanoparticles

L5 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Functionalized Fluorescent Oxide Nanoparticles: Artificial Toxins for Sodium Channel Targeting and Imaging at the Single-Molecule Level

L5 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Incorporated organic modified Ag nanoparticles in ormocer

L5 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Heat-induced precipitation and light-induced dissolution of metal (Ag & Au) nanoparticles in hybrid film

L5 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Method for preparing stable dispersions of metallic nanoparticles, stable dispersions obtained therefrom and coating compositions containing them

L5 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of Silver Nanoparticles through Alcohol Reduction with Organoalkoxysilanes

L5 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Sol-Gel Synthesis of Hybrid Organic-Inorganic Monoliths Doped with Colloidal CdSe/ZnS Core-Shell Nanocrystals

L5 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Glass transition behavior of alumina/polymethylmethacrylate (PMMA) nanocomposites

L5 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Surface analytical study of self-assembled nanoparticle (SNAP) surface treatments

L5 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Modified silica particles for gene delivery

L5 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Photoluminescence of erbium oxide nanocrystals/TiO₂/γ-glycidoxypropyltrimethoxysilane (GLYMO) composite sol-gel thin films derived at low temperature

L5 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Preparation of organic-inorganic multifunctional nanocomposite coating via sol-gel routes

L5 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Thermal and mechanical properties of alumina/polymethyl methacrylate (PMMA) nanocomposites

L5 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Up-conversion luminescence of erbium (III) oxalate nanoparticles /titania/γ-Glycidoxypropyltrimethoxysilane composite sol-gel thin films

L5 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI The effect of nanoscaled metal oxide sols on the structure and properties of glycidoxypropyltrimethoxysilane derived sols and gels

L5 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
TI Generation of wet-chemical AR-coatings on plastic substrates by use of polymerizable nanoparticles

LS ANSWER 13 OF 31 MEDLINE on STN DUPLICATE 1
 AN 2005244688 MEDLINE
 DN PubMed ID: 15883771
 TI Optimization of gold nanoparticle-based DNA detection for microarrays.
 AU Festag Grit; Steinbruck Andrea; Wolff Andreas; Csaki Andrea; Moller Robert; Fritzsche Wolfgang
 CS Institute for Physical High Technology Jena, Jena, Germany..
 grit.festag@iph-jena.de
 SO Journal of fluorescence, (2005 Mar) Vol. 15, No. 2, pp. 161-70.
 Journal code: 9201341. ISSN: 1053-0509.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200509
 ED Entered STN: 11 May 2005
 Last Updated on STN: 27 Sep 2005
 Entered Medline: 26 Sep 2005
 AB DNA microarrays are promising tools for fast and highly parallel DNA detection by means of fluorescence or gold nanoparticle labeling. However, substrate modification with silanes (as a prerequisite for capture DNA binding) often leads to inhomogeneous surfaces and/or nonspecific. . . examined both different substrate cleaning and activating protocols and also different blocking strategies for optimizing the procedures, especially those for nanoparticle labeling. Contact angle measurements as well as fluorescence microscopy, atomic force microscopy (AFM), and a flatbed scanner were used to. . . to similar hydrophobic surfaces which could be revealed as smooth surfaces of about 2-4 nm roughness. The two examined silanes (3-glycidoxypropyltrimethoxysilane (GOPS) and 3-aminopropyltriethoxysilane (APTES)) differed in their DNA binding homogeneity, maximum signal intensities, and sensitivity. Nonspecific gold binding on APTES/PDC surfaces. . .

L5 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:430386 CAPLUS
 DN 141:8009
 TI Method of preparing surface modifiers for nanoparticles, surface-modified inorganic oxide nanoparticles, and applications thereof
 IN Wu, Ru-Yu; Wang, Jeng-Gung; Chiang, Shiaw-Tseh
 PA Far Eastern Textile Ltd., Taiwan
 SO U.S. Pat. Appl. Publ., 9 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------------------|----------|
| PI | US 2004099975 | A1 | 20040527 | US 2003-397384 | 20030327 |
| | TW 227719 | B1 | 20050211 | TW 2002-91134111 | 20021122 |
| PRAI | TW 2002-91134111 | A | 20021122 | | |
| OS | MARPAT 141:8009 | | | | |
| AB | A method of preparing a surface modifier for nanoparticles, and a dispersion of inorg. oxide nanoparticles are provided. The surface modifier is formed by hydrolyzing 1 part an alkoxy silane compound with 1-9 parts an alc./water solution, and the alkoxy silane compound is hydrolyzed to form a silanol. The weight ratio of alc. to water is 60:40-95:5. The alc./water solution can control the degree of forming of silanol, and thus prevents self-condensation of the silanol. The dispersion is formed by dispersing inorg. oxide nanoparticles in the aforesaid surface modifier, and can be used in the manufacture of inorg.-organic polymeric functional materials, especially anti-UV polyester products. Thus, 6 g γ -glycidoxypropyltrimethoxysilane, 27 mL ethanol, and 3 mL water were heated at 60° for 30 min to give a surface modifier, which was added into a solution containing 1 Kg Hombitec S | | | | |

Suspension titanium oxide nanoparticle suspension and heated at 55° for 4 h to give a surface-modified nanoparticle with good stability and average particle size 100.7 nm, 5000 ppm of the resulting nanoparticle was added into a polyester precursor obtained from terephthalic acid and ethylene glycol in the presence of antimony trioxide and trimethylphosphate, 4000 ppm titanium oxide particle with particle size 0.3 μm was added therein and polymerized, and spun to give a fiber with ash content 0.89% and screen pressure increasing rate 0.7 bar/h.

ST surface modifier prepnanoparticle modified inorg oxide; hydrolyzed glycidoxypolytrimethoxysilane surface modifier; silanol modified titanium oxide nanoparticle polyester fiber

=> s (glycidoxypolytrimethoxysilane or GOP) AND (nanoparticle or nanosphere or nanotube) AND (DNA or nucleic or polynucleotide)

L6 6 (GLYCIDOXYPROPYLTRIMETHOXYSILANE OR GOP) AND (NANOPARTICLE OR NANOSPHERE OR NANOTUBE) AND (DNA OR NUCLEIC OR POLYNUCLEOTIDE)

=> dup remove 16

PROCESSING COMPLETED FOR L6

L7 5 DUP REMOVE L6 (1 DUPLICATE REMOVED)

=> d ti 1-5

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Preparation and application of assembled magnetic composite particle

L7 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 1

TI Optimization of gold nanoparticle-based DNA detection for microarrays.

L7 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Methods to increase nucleotide signals by Raman scattering

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Means and methods for detection of binding of members of specific binding pairs

L7 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

TI Modified silica particles for gene delivery

=> d bib 4

L7 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:355717 CAPLUS

DN 138:350794

TI Means and methods for detection of binding of members of specific binding pairs

IN Fritzsche, Wolfgang; Czaki, Andrea; Koehler, Johann Michael; Moeller, Robert; Schut, Frederik; Oosting, Louis; Tan, Paris Som Tjwan

PA Germany

SO U.S. Pat. Appl. Publ., 22 pp., Cont.-in-part of U.S. Ser. No. 869,206. CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|------------------|----------|
| PI | US 2003087277 | A1 | 20030508 | US 2002-215789 | 20020809 |
| | DE 19860547 | C1 | 20001012 | DE 1998-19860547 | 19981223 |
| | WO 2000039325 | A2 | 20000706 | WO 1999-EP10334 | 19991222 |
| | WO 2000039325 | A3 | 20001116 | | |

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,

KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
 MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
 TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
 DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
 CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 US 6878539 B1 20050412 US 2001-869206 20010625
 PRAI DE 1998-19860547 A 19981223
 WO 1999-EP10334 W 19991222
 US 2001-869206 A2 20010625

=> d bib 1,2

L7 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:1297049 CAPLUS
 DN 144:63658
 TI Preparation and application of assembled magnetic composite particle
 IN Cui, Yali; Chen, Chao; Hui, Wenli; Wang, Shan; Wang, Yani; Du, Yanhua;
 Wang, Huirong; Su, Jing
 PA Shaanxi Lifegen Co., Ltd., Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI CN 1580765 | A | 20050216 | CN 2003-153486 | 20030814 |
| PRAI CN 2003-153486 | | 20030814 | | |

L7 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 1
 AN 2005244688 MEDLINE
 DN PubMed ID: 15883771
 TI Optimization of gold nanoparticle-based DNA detection
 for microarrays.
 AU Festag Grit; Steinbruck Andrea; Wolff Andreas; Csaki Andrea; Moller
 Robert; Fritzsche Wolfgang
 CS Institute for Physical High Technology Jena, Jena, Germany..
 grit.festag@ipht-jena.de
 SO Journal of fluorescence, (2005 Mar) Vol. 15, No. 2, pp. 161-70.
 Journal code: 9201341. ISSN: 1053-0509.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200509
 ED Entered STN: 11 May 2005
 Last Updated on STN: 27 Sep 2005
 Entered Medline: 26 Sep 2005

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 FULL ESTIMATED COST
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 CA SUBSCRIBER PRICE

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ENTRY | TOTAL
SESSION |
|---------------------|------------------|
| 47.85 | 49.89 |
| SINCE FILE
ENTRY | TOTAL
SESSION |
| -0.75 | -0.75 |

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